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DATE: 03/26/2002

PATENT APPLICATION: US/09/817,748

TIME: 12:28:47

Input Set : A:\EP.txt

Output Set: N:\CRF3\03262002\I817748.raw

3 <110> APPLICANT: Tracy, Steven M.
 4 Chapman, Nora M.
 5 Kolbeck, Peter
 6 Malone, James
 8 <120> TITLE OF INVENTION: Cocksackievirus Vectors And Their Use In Prevention And
 Treatment Of
 9 Disease
 11 <130> FILE REFERENCE: UNMC0027
 13 <140> CURRENT APPLICATION NUMBER: 09/817,748
 14 <141> CURRENT FILING DATE: 2001-03-27
 16 <150> PRIOR APPLICATION NUMBER: 09/403,672
 17 <151> PRIOR FILING DATE: 2000-03-27
 19 <150> PRIOR APPLICATION NUMBER: PCT/US98/04291
 20 <151> PRIOR FILING DATE: 1998-03-05
 22 <150> PRIOR APPLICATION NUMBER: 08/812,121
 23 <151> PRIOR FILING DATE: 1997-03-05
 25 <160> NUMBER OF SEQ ID NOS: 28
 27 <170> SOFTWARE: PatentIn version 3.1
 29 <210> SEQ ID NO: 1
 30 <211> LENGTH: 85
 31 <212> TYPE: DNA
 32 <213> ORGANISM: Cocksackievirus
 34 <400> SEQUENCE: 1
 35 atcactacaa tgacaaatac gggcgcatTT ggacaacaat caagggggcag cgtatgtggg 60
 37 gaactacagg gtaatgggtc tcaac 85
 40 <210> SEQ ID NO: 2
 41 <211> LENGTH: 80
 42 <212> TYPE: DNA
 43 <213> ORGANISM: Cocksackievirus
 45 <400> SEQUENCE: 2
 46 tactcgatca ctacaatgac aaatacgggc gcatttggac aacaatcagg ggcagcgtat 60
 48 gtgggggaact acagggtagt 80
 51 <210> SEQ ID NO: 3
 52 <211> LENGTH: 34
 53 <212> TYPE: PRT
 54 <213> ORGANISM: Cocksackievirus
 56 <400> SEQUENCE: 3
 58 Ser Gly Val Thr Thr Thr Arg Gln Ser Ile Thr Thr Met Thr Asn Thr
 59 1 5 10 15
 62 Gly Ala Phe Gly Gln Gln Ser Gly Ala Val Thr Leu Glu Met Pro Gly
 63 20 25 30
 66 Ser Ala
 70 <210> SEQ ID NO: 4
 71 <211> LENGTH: 25

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72 <212> TYPE: PRT
73 <213> ORGANISM: Cocksackievirus
75 <400> SEQUENCE: 4
77 Met Lys Ser Asn Ser Ile Thr Thr Met Thr Asn Thr Gly Ala Phe Gly
78 1          5          10          15
81 Gln Gln Ser Gly Ala Val Tyr Val Gly
82          20          25
85 <210> SEQ ID NO: 5
86 <211> LENGTH: 27
87 <212> TYPE: DNA
88 <213> ORGANISM: Cocksackievirus
90 <400> SEQUENCE: 5
91 atgggaaatt cgagctcgat gcctggc
94 <210> SEQ ID NO: 6
95 <211> LENGTH: 28
96 <212> TYPE: DNA
97 <213> ORGANISM: Cocksackievirus
99 <400> SEQUENCE: 6
100 atgaaaagcg catgcgggtt ttcaaggt
103 <210> SEQ ID NO: 7
104 <211> LENGTH: 74
105 <212> TYPE: DNA
106 <213> ORGANISM: Cocksackievirus
108 <400> SEQUENCE: 7
109 actactaggc aaagcatcac tacaatgaca aatacgggcg catttggaca acaatcaggg
111 cagtctcgga tcca
114 <210> SEQ ID NO: 8
115 <211> LENGTH: 62
116 <212> TYPE: DNA
117 <213> ORGANISM: Cocksackievirus
119 <400> SEQUENCE: 8
120 gaattctgca gatcaattac caccatgacc aacacggggc gcatttggac aatcaggggc
122 ag
125 <210> SEQ ID NO: 9
126 <211> LENGTH: 5
127 <212> TYPE: PRT
128 <213> ORGANISM: Cocksackievirus
130 <400> SEQUENCE: 9
132 Asn Thr Gly Ala Phe
133 1          5
136 <210> SEQ ID NO: 10
137 <211> LENGTH: 11
138 <212> TYPE: PRT
139 <213> ORGANISM: Cocksackievirus
141 <400> SEQUENCE: 10
143 Tyr Arg Val Met Gly Leu Asn Tyr Ser Ile Thr
144 1          5          10
147 <210> SEQ ID NO: 11
148 <211> LENGTH: 58

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149 <212> TYPE: PRT
150 <213> ORGANISM: Cocksackievirus
152 <400> SEQUENCE: 11
154 Ser Gly Val Thr Thr Thr Arg Gln Ser Ile Thr Thr Met Thr Asn Thr
155 1 5 10 15
158 Gly Ala Phe Gly Gln Gln Ser Gly Ala Val Thr Leu Glu Asp Pro Arg
159 20 25 30
162 Val Pro Ser Ser Asn Ser Ile Thr Thr Met Thr Asn Thr Gly Ala Phe
163 35 40 45
166 Gly Gln Gln Ser Gly Ala Val Tyr Val Gly
167 50 55
170 <210> SEQ ID NO: 12
171 <211> LENGTH: 59
172 <212> TYPE: PRT
173 <213> ORGANISM: Cocksackievirus
175 <400> SEQUENCE: 12
177 Ser Gly Val Thr Thr Thr Arg Gln Ser Ile Thr Thr Met Thr Asn Thr
178 1 5 10 15
181 Gly Ala Phe Gly Gln Gln Ser Gly Ala Val Thr Leu Glu Met Pro Gly
182 20 25 30
185 Ser Ala Met Lys Ser Asn Ser Ile Thr Thr Met Thr Asn Thr Gly Ala
186 35 40 45
189 Phe Gly Gln Gln Ser Gly Ala Val Tyr Val Gly
190 50 55
193 <210> SEQ ID NO: 13
194 <211> LENGTH: 69
195 <212> TYPE: DNA
196 <213> ORGANISM: Cocksackievirus
198 <400> SEQUENCE: 13
199 atgggaaatt cgagctccgt acccggggat cctctagagt cgacctgcag gcatgcggggt 60
201 tttcaagga 69
204 <210> SEQ ID NO: 14
205 <211> LENGTH: 55
206 <212> TYPE: DNA
207 <213> ORGANISM: Cocksackievirus
209 <400> SEQUENCE: 14
210 atgggaaatt cgagctcgat gcctggcatg aaaagcgcat gcgggttttc aaggt 55
213 <210> SEQ ID NO: 15
214 <211> LENGTH: 23
215 <212> TYPE: PRT
216 <213> ORGANISM: Cocksackievirus
218 <400> SEQUENCE: 15
220 Met Gly Asn Ser Ser Ser Val Pro Gly Asp Pro Leu Glu Ser Thr Cys
221 1 5 10 15
224 Arg His Ala Gly Phe Gln Gly
225 20
228 <210> SEQ ID NO: 16
229 <211> LENGTH: 18
230 <212> TYPE: PRT

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231 <213> ORGANISM: Cocksackievirus
233 <400> SEQUENCE: 16
235 Met Gly Asn Ser Ser Ser Met Pro Gly Met Lys Ser His Ala Gly Phe
236 1          5          10          15
239 Gln Gly
243 <210> SEQ ID NO: 17
244 <211> LENGTH: 138
245 <212> TYPE: DNA
246 <213> ORGANISM: Cocksackievirus
248 <400> SEQUENCE: 17
249 actactaggc aaagcatcac tacaatgaca aatacgggcg catttggaaca acaatcaggg 60
251 gcagtctcgg atccagaatt ctgcagatca attaccacca tgaccaacac cggggcgcat 120
253 ttggacaatc aggggcag 138
256 <210> SEQ ID NO: 18
257 <211> LENGTH: 46
258 <212> TYPE: PRT
259 <213> ORGANISM: Cocksackievirus
261 <400> SEQUENCE: 18
263 Thr Thr Arg Gln Ser Ile Thr Thr Met Thr Asn Thr Gly Ala Phe Gly
264 1          5          10          15
267 Gln Gln Ser Gly Ala Val Ser Asp Pro Glu Phe Cys Arg Cys Ile Thr
268          20          25          30
271 Thr Met Thr Asn Thr Gly Ala Phe Gly Gln Ser Gly Ala Val
272          35          40          45
275 <210> SEQ ID NO: 19
276 <211> LENGTH: 124
277 <212> TYPE: DNA
278 <213> ORGANISM: Cocksackievirus
280 <400> SEQUENCE: 19
281 catcactaca atgacaaata cgggcgcatc ttggacaacaa tcagggggcag tctcggatcc 60
283 taggatatcc tgcaggatta caactatgac taacaccggg gctttcggtc agcagagtgg 120
285 ggca 124
288 <210> SEQ ID NO: 20
289 <211> LENGTH: 41
290 <212> TYPE: PRT
291 <213> ORGANISM: Cocksackievirus
293 <400> SEQUENCE: 20
295 Ile Thr Thr Met Thr Asn Thr Gly Ala Phe Gly Gln Gln Ser Gly Ala
296 1          5          10          15
299 Val Ser Asp Pro Arg Ile Ser Cys Arg Ile Thr Thr Met Thr Asn Thr
300          20          25          30
303 Gly Ala Phe Gly Gln Gln Ser Gly Ala
304          35          40
307 <210> SEQ ID NO: 21
308 <211> LENGTH: 268
309 <212> TYPE: DNA
310 <213> ORGANISM: Cocksackievirus
312 <400> SEQUENCE: 21
313 catcactaca atgacaaata cgggcgcatc ttggacaacaa tcagggggcag tctcggatcc 60

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315 ggatgaaaaa ggggtgcctc ttccaaaggt tgacttgcaa ttcttctcaa atactacctc 120
317 tttgaacgac cggcaaggca atgctactaa accaaaagtg gttttgtaca gtgaagatgt 180
319 aaatatggaa accccagaca cacatctgtc tgactgcagg attacaacta tgactaacac 240
321 cggggctttc ggtcagcaga gtggggca 268
324 <210> SEQ ID NO: 22
325 <211> LENGTH: 89
326 <212> TYPE: PRT
327 <213> ORGANISM: Cocksackievirus
329 <400> SEQUENCE: 22
331 Ile Thr Thr Met Thr Asn Thr Gly Ala Phe Gly Gln Gln Ser Gly Ala
332 1 5 10 15
335 Val Ser Asp Pro Asp Glu Lys Gly Val Pro Leu Pro Lys Val Asp Leu
336 20 25 30
339 Gln Phe Phe Ser Asn Thr Thr Ser Leu Asn Asp Arg Gln Gly Asn Ala
340 35 40 45
343 Thr Lys Pro Lys Val Val Leu Tyr Ser Glu Asp Val Asn Met Glu Thr
344 50 55 60
347 Pro Asp Thr His Leu Ser Asp Cys Arg Ile Thr Thr Met Thr Asn Thr
348 65 70 75 80
351 Gly Ala Phe Gly Gln Gln Ser Gly Ala
352 85
355 <210> SEQ ID NO: 23
356 <211> LENGTH: 31
357 <212> TYPE: DNA
358 <213> ORGANISM: Cocksackievirus
360 <400> SEQUENCE: 23
361 tccggatgaa aaaggggtgc ctcttccaaa g 31
364 <210> SEQ ID NO: 24
365 <211> LENGTH: 30
366 <212> TYPE: DNA
367 <213> ORGANISM: Cocksackievirus
369 <400> SEQUENCE: 24
370 gcctctgcag tcagacagat gtgtgtctgg 30
373 <210> SEQ ID NO: 25
374 <211> LENGTH: 20
375 <212> TYPE: DNA
376 <213> ORGANISM: Cocksackievirus
378 <400> SEQUENCE: 25
379 ctagactctg ccaatacgag 20
382 <210> SEQ ID NO: 26
383 <211> LENGTH: 21
384 <212> TYPE: DNA
385 <213> ORGANISM: Cocksackievirus
387 <400> SEQUENCE: 26
388 gtgctcacta agaggtctct g 21
391 <210> SEQ ID NO: 27
392 <211> LENGTH: 49
393 <212> TYPE: DNA
394 <213> ORGANISM: Cocksackievirus

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VERIFICATION SUMMARY

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